

AMERICAN IONOSPHERIC PROPAGATION ASSOCIATION

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TV, FM-DX

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Many of our new members have requested information on the different types, terms of TV-DX. Therefore we shall quote from the pages of TV-Guide July 1959 in which such an article was written by our V.Pres-King Schafer.

The "DX" in TV-DX is a standard abbreviation for the word "distance"-in this case, distance greater than a station's normal coverage area. "Coverage area" is determined by the farthest points to which a TV signal generally retains good quality.

Coverage depends on the station's power, tower height, and terrain.

A TV signal normally travels in a straight line toward outer space, rather than bending with the earth's curvature. But nature makes exceptions to the rule. That's where TV-DX steps in. Here's how various phases of TV-DX work.

"E SKIP". From May to July and sometimes in midwinter, the ionosphere (a region of air beginning 25 miles above the earth) becomes ionized or charged through solar radiation, creating areas denser than the TV signal that pass through on their way to outer space. At some 70 miles up, the ionized masses "bend" the signal back toward earth-but by this time, the signal may be 1200 miles away from its starting point. Hence, E SKIP or (the "E" layer of the ionosphere). E Skip or "ES" may last up to several hours: Channels 2 thru 6 (low bands) are prone to this "E Skip".

"F2" Skip -reception from a different ionospheric layer. Distances covered via F2 go up to 15,000 miles. "F2" occurs during winter, as a result of sun spots, and bring in foreign stations, mostly European, which operate on standards and frequencies different from American television. To receive F2, your receiver must be converted or be of the foreign standards.

"TROPs" The troposphere, the air layer lying closest to the earth, can bring in stations 300 to 1000 miles away. During late summer and early fall, rapid movements of weather fronts in the troposphere causes it to become dense and form ducts. These bend TV signals down producing "snow-free" reception (TROPs) from weak, or fringe-area stations. Here the entire VHF band, channels 2 thru 13 is affected. (also take note of your UHF and FM bands).... Watch the FM bands when the "ES" are in also.

"MS" (meteor Scatter) also produces distance reception. When meteors from outer space enter our atmosphere and burn up, ionization takes place. This deflects TV signals back to earth briefly-for less than a second, sometimes minutes as meteoric overlap. "MS" is a daily event but occurs best at peaks of meteoric activity. However, as our bulletins notes sadly, "Receiving "MS" isn't easy. (However, I've seen MS last long enough to obtain good clear photos of test patterns etc.)

Another such article was written by our good friend Tom Hidley, it appeared in Ele. Illustrated magazine the same year. It also covered somewhat the same phases, and the hobby of the AIPA DXers. Both articles were very good, and the magazines were sold nation wide. Our membership is mostly derived from such publicity. Magazine, and even your newspaper articles keeps the AIPA in the limelight.

Art Collins.

NEW CH. 3-13 TV RECORDS

CALL	LOCATION	DIST.	DXER
CHANNEL 3			
WTIC	HARTFORD, CONN.	1385	BH
WSYR	Syracuse, N. Y.	1235	BH
CHANNEL 4			
WOAY	Oak Hill, W. Va.	920	BH
CHAB	Moose Jaw, Sask.	1035	BH
CHANNEL 5			
WRAL	Raleigh, N. C.	1055	BH
WJPB	Weston, W. Va.	965	BH
WHDH	Boston, Mass.	1500	BH
CHANNEL 6			
WFIL	Philadelphia	1245	BH
CHAT	Medicine Hat, Albt.	1135	BH
CHANNEL 8			
WKBT	La Crosse, Wisc.	620	BH
CHANNEL 10			
KWTX	Waco, Texas	1375	RI
CHANNEL 11			
KCBD	Lubbock, Texas	280	BH
KMCU		415	BH
CHANNEL 12			
KEYC	Mankato, Minn.	575	BH
CHANNEL 13			
KDUB	Lubbock, Texas	280	BH

NEW RECORD HOLDERS

CH. 3-B. Hauser-2
 CH. 4-B. Hauser-2
 CH. 5-B. Hauser-3
 CH. 6-B. Hauser-2
 CH. 8-B. Hauser-1
 CH. 10-R. Italiano-1
 CH. 11-B. Hauser-2
 CH. 12-B. Hauser-1
 CH. 13-B. Hauser-1

NEW UHF RECORDS

CALL	LOCATION	DIST.	DXER
CHANNEL 16			
WBOC	Salisbury, Md.	235	AF
CHANNEL 17			
WPCA	Philadelphia, Pa.	130	AF
CHANNEL 31			
WUHF	New York, N. Y.	25	AF

NEW UHF RECORD HOLDERS

CH. 16-A. Friese-1
 CH. 17-A. Friese-1
 CH. 31-A. Friese-1

TELEVISION UHF RECORDS CH. 34-47

CALL	LOCATION	DIST.	DXER
CHANNEL 34			
WOSU	E. Columbus, Ohio	395	BD
WILK	Wilkes Barre, Pa.	195	RN
CHANNEL 35			
WIMA	Lima, Ohio	320	DK
WEEQ	LaSalle, Ill.	217	BD
WJPB	Fairmont, W. Va.	122	JP
WSEE	Erie, Pa.	450	FD
WTRI	Albany, N. Y.	260	RN
CHANNEL 36			
KTVU	Stockton, Cal.	200	DS
CHANNEL 38			
KS2XBR	Chicago, Ill.	3	TH
CHANNEL 39			
WTVO	Rockford, Ill.	520	KS RN
CHANNEL 40			
WHYN	Springfield, Mass.	95	AF
WINR	Binghamton, N. Y.	158	RN
KCCC		240	DS
CHANNEL 41			
WCDA	Albany, N. Y.	260	RN
CHANNEL 43			
WICC	Bridgeport, Conn.	320	RN
WEEK	Peoria, Ill.	566	RN
CHANNEL 45			
WKST	New Castle, Pa.	435	FD
CHANNEL 47			
KJEO	Fresno, Cal.	100	DS

NEW RECORD HOLDERS UHF

CH. 34-B. Draeb, R. Nieman-1
 CH. 35-D. Kanaar, B. Draeb,
 J. Parillo, P. Dombrowski,
 R. Nieman-1
 CH. 36 D. Smith-1
 CH. 38 T. Hidley-1
 CH. 39 K. Schafer, R. Nieman-1
 CH. 40 A. Friese, R. Nieman,
 D. Smith-1
 CH. 41 R. Nieman-1
 CH. 43 R. Nieman-2
 CH. 45 F. Dombrowski-1
 CH. 47 D. Smith-1

More UHF Records and any new
 Ch. 2-13 Records, also Standings
 of Active Members in Dec. Bulletin
 Nov. 26 is the deadline here in
 Erie.

Frank Wheeler Box 176, R.D. 5
 Erie, Pa.

GRANTS

Ch 3 CJLH-TV Lethbridge, Alta. 225Watts-112watts.
 Ch 4 CKBI-TV Prince Albert, Sask. 3Kw- 1.6Kw. (First figure power
 Ch 6 CKOS-TV Yorkton, Sask. 670 watts- 340atts. are Visual, second
 Ch 9 Dryden, Ont. 8.9 Kw.- 4.45Kw. are aural power.)

APPLICATIONS.

Ch 5 Wilmington, N.C. 16.3 Kw. and 8.32 Kw.
 Ch 9 Syracuse, N.Y. (there are three applications in for that channel.)
 Ch 10 Sault Ste. Marie, Mich. 87.5 Kw (Vis.) 52.6Kw(Aur.)
 Ch 13 Grand Rapids, Mich. 316Kw- 171Kw.
 Ch 13 Rochester, N.Y. 316Kw- 158Kw.
 Ch 24 Austin, Texas 17.3Kw-9.15Kw.
 Ch 25 Jackson, Miss. 240Kw.- 120Kw.
 Ch 45 Tuscaloosa, Ala. 20.7Kw- 11.2Kw.
 Ch 73 Dallas, Texas. 310Kw.- 145Kw.

The new VHF experimental station, WUHF ch 31 New York City is now on with one million watts power(as of Nov 5th.) transmitting from top of the Empire state building- Six VHF outlets there will pipe programs to the UHF station, comparisons will be made on 100 receivers in the area. the tests will go on thru Dec. 1962. (thanks for the phone call on this from Art Friese.)

Word comes from Dee Johnson that she is anxiously waiting the new Ch 2 station in Portland, Ore. Hi! Says they should be on testing any day now.

The new WETA-TV ch 26 (Ed.) in Washington went on the air Oct. 2nd.

WTSP-TV Inc. seems to be getting closer to receiving the ch 10 in Largo, Fla.

WELCOME New member A.M. Germond 279 Audubon Rd. Englewood, N.J. (NNRC Boy.)

RE-NEWSALS in from Richard Bergen. 109 Woodlawn, La Grange, Ky. 6th year.

Richard has been having trouble getting his reports in the bulletins, We are sorry Dick. We have no Southern DX Editor now, so the boys from the south are asked to mail their reports to Dick Nieman.

Ron Hilding 352 University St. Salt Lake City 2, Utah. 5th yr.

Raymond Bell College- Washington & Jefferson- Washington, Pa. 6th yr.

We are thankful to Walter Spaulding who is in the process of compiling a list of TV stations for our members. The list will come to you in sections. (Additional TV stations and changes from time to time can be made by the individual through means of the FCC page.) We hope!

There have been many request for a membership address list ! This too will be taken care of in the near future.

We are thankful too, to the members who have written in their offers to help in any way to make these bulletins more beneficial and helpful to the DXer. We just don't get technical data from manufactures, so it's almost impossible to pass on such information to you. The biggest help (if it were possible) is articles in magazines, new papers etc. that would create possible new members.

With the lull now in DX, we find this a good time to turn our attention to some work on our equipment, especially the TV set etc. In the early spring (weather permitting) we go to work on the out side eqp. Don't get caught with bad or "being repaired" eqp, when all of a sudden the first ES will appear.

Art Collins.

--- Well I haven't forgotten you and the Rank Column have been sort of busy with the new station listing and all and of course lack of material as usual.

Have a listing from Bill Hauser with a very fine log.

No. of states seen 40 also D.C.

5 Canadian provinces, Cuba and Mexico.

States ~~not~~ not seen Oregon, Mississippi, Alaska, Hawaii, Delaware, Rhode-Island, New Hampshire, Vermont, New Jersey, Maine.

Two states have been seen by E Skip, Trops, and MS: Ill. Wis.

Two stations have been seen both by MS and Trops: Kprc & KMOX

One station has been seen both by trops and Es. WPSD 6 500 miles.

Summary of Es loggings during 1961 season: Ch. 2 163; ch. 3 122; ch. 4 40 ch. 5 13; ch. 6 20; ch. 7 1; Median ch. 3 14

Summary of new loggings; ch. 2 4 new; ch. 3 26 new; ch. 4 18 new; ch. 5 7 new ch. 6 9 new; ch. 7 1 new.

States from which all low bands channels 500-1500 miles away have been seen; Conn, D.C., Kentucky, Maryland, Minnesota, Nevada, North Carolina, Pennsylvania, South Carolina (not inc. Ch. 4 Charleston)

Total loggings on each channel;

Ch.	2	28	U.S.	6	Can.	2	For.	Total	36
"	3	26	"	5	"	4	"	"	35
"	4	28	"	2	"	1	"	"	31
"	5	27	"		"		"	"	27
"	6	20	"	3	"	1	"	"	24
"	7	12	"		"		"	"	12
"	8	8	"		"		"	"	8
"	9	4	"		"		"	"	4
"	10	9	"		"		"	"	9
"	11	10	"		"		"	"	10
"	12	9	"		"		"	"	9
"	13	8	"		"		"	"	8
"	19	1	"		"		"	"	1
"	25	1	"		"		"	"	1
		191		16		8		215	

This is a very nice report only wish I could get more.

Gary Olson has sent me some verie signer

KTBS 3 Shreveport, La. Claude Scott, Cheif Eng.

KPAC 4 Port Arthur, Tex. Don Daniels, Cheif Eng.

WBTB 3 Charlotte, N.C. John P. Deli, Prom. Mgr.

WSYR 3 Syracuse, N.Y. A.J. Eicholzer, C.E.

WDBO 6 Orlando, Fla. Juanda M. Robbins, Administration

KGLD 11 Garden City, Kan. H.G. Haefels, C.E.

WKRK 5 Mobile, Ala. Donald B. Patton, C.E.

WTVY 4 Dothan, Ala. Marvin J. Beasley, Eng.

CBFT 2 Montreal, Que. Kenneth Murphy

WTAR 3 Norfolk, Va. Richard L. Lindell C.E.

Well that's it for this month hope to have another column next month.

++ William Hider, Binghamton, N.Y. ---trops Oct. 9 WNEW-5, WKBW-7, Es. Aug. 13 WEDU-3, WBRZ-2, KFEQ-2, Aug. 15 WCBI-4, WRBL-3, Aug. 20 WAIQ-2, Aug. 21 KARD-3, Aug. 25 WWL-4, WREC-3, WSIL-3, KARK-4, Aug. 28 Kvoo-2, Sept. 1 WKY-4, total 61 with 13 new.

++ Richard Bergen, K4VDE La Grange, Kentucky ---trops July 15 WLEX-18, WKYT-27, July 22 Es. WLBZ-2, July 24 trops WBBM-2, Es. KTWO-2, July 30 KMID-2, KDIX-2, KNOP-2, KCKT-2, July 31 KPRC-2, KNOP-2, CKCK-2, KVOO-2, KTVR-2, Aug. 3 trops WKBW-7, Aug. 4 Es. WLBZ-2, WKTV-2, Aug. 6 trops WSIX-8, Aug. 7 WFIE-14, WEHT-50, Aug. 9 WOHS-8, WFIE-14, Aug. 12 KYW-3, WFIE-14, Aug. 13 KMID-2, KVOO-2, KCSJ-5, KOOK-2, Es. Aug. 18 CKCW-2, WLBZ-2, WCBS-2, Aug. 23 WSIX-8, Sept. 5 WFIE-14, Sept. 11 WLKY-32, Sept. 12, WSIX-8, Sept. 16 WFIE-14, WMBD-31. 6 new total 120.

++ (New member) A.M. Germond, 279 Audubon Road, Englewood, New Jersey He is mainly a FM dxe with a grand total of 410 stations. On TV a total of 60 station have ben logged.

++ Frank Wheeler, Erie, Pa. ---Trops Sept. 28 WJIM-6, WNEM-5, Oct. 5 WNEM-5, Oct. 7 WILX-10, WTOL-11, Oct. 8 WSPD-13, WTOL-11, Oct. 11 WILX-10, WTOL-11, WNEM-5, Oct. 17 WNEM-5, WILX-10, WJRT-12, WTOL-11, WSPD-13, WNBQ-12, Oct. 22 WSPD-13, WTOL-11, WNBQ-5, WJIM-6, WNEM-5, Oct. 23 WOOD-8, WILX-10, WNEM-5, Total stations 159,

++ Mrs. W.E. Burritt, Waterloo, N.Y. ---trops Oct. 1 WCAU-10, WFIL-6, WHDE-5, WBZ-4, WRCV-3, WABC-7,.

++ Carlon Howlonten, Uniontown, Ohio. ---trops Aug. 10 WHDE-5, WBZ-5, (550 miles) WRCV-3, WFIL-6, WCAU-10, WJZ-13, WNBC-4, WBAL-11, WNBC-7, Oct. 12 WTHI-10,) Oct. 17 WCAU-10, WNBQ-12, WHEN-8, WGAI-8, WRC-13, WSLS-10, WSJS-12, WDBJ-7, WHIS-6, WAST-13, Sept. 3 WRCV-3, WFIL-6, WTVR-6, WBAL-11, WTOP-9, WRC-4, WFBM-6, Sept. 4 WNEM-5, WJIM-6, Sept. 5 WHEN-8, WHEC-10, WBBM-2, WTVR-6, Sept. 7 WTOP-9, WJZ-13, WBAL-11, WFIL-6, WBBM-2, WVET-10, WHEN-8, Aug. 8 WGR-2, CFTO-9, WOAX-4, WNBQ-12, total now 199 with 6 new.

++ John Parillo, Girard, Ohio. ---Es. July 2 WEAR-3, WBRC-6, WOAI-4, KPRC-2, WESH-2, WLBT-3, KVOO-2, KFDX-3, July 7 CBHT-3, WLBZ-2, CHSJ-4, CKCW-2, KCKT-2, KPRC-2, KPAC-4, July 7 trops WSEE-35, July 9 Es. WESH-2, KCKT-2, KGNC-4, WCTV-6, WTVY-4, KVOO-2, July 10 WBRZ-2, KPAC-4, KPRC-2, WDBO-6, CMBF-4, WEAR-3, KGBT-4, July 10 KPRC-2, July 13, KGNC-4, KDUH-4, KTVR-2, WTHS-2, WTVJ-4, July 24 KTVR-2, July 25 WTHS-2, WEDU-3, WTVJ-4, July 30 WESH-2, KTVR-6, KDUH-4, KVOO-2, KSYP-6, KNOP-2, July 31 KPRC-2, KRLD-4, WBAP-5, KFDX-3, WOAI-4, KMID-2, KPRC-2, WDAY-6,.

++ Clinton T. Day, Westerly, R.I. --- trops Sept. 17 WRCV-3, WBAL-11, WJZ-13, Sept. 30 aurora Wcau-10, WAVY-10, WMAR-2, Oct. 11 trops WMAR-2, WRCV-3, WTAR-3, WRC-4, WFIL-6, WMAL-7, WXEX-8, WNCT-9, WAVY-10, WCAU-10, WVEC-13, WITN-7, WTOP-9, Oct. 12, WAVY-10, WTAR-3, Oct. 18 WVEC-13, WAVY-10, Oct. 19 WBAL-11, WJZ-13, WNTA-13, WPIX-11,.

++ Dick Nieman, Buffalo, N.Y. ---trops Aug. 8 WJRT-12, WOOD-8, WGN-9, WBKB-7, WNBQ-5, WKZO-3, KETV-7 (880 mi.), KOLN-10 (940 mi.), KHAS-5 (1020 mi.) KMTV-3, Aug. 18 WISN-12, WITI-6, WWTV-13, WOOD-8, WTOM-4, WTVN-6, WBNS-10, WLWC-4, WTMJ-4, WRC-4, WRCV-3, WFIL-6, WCAU-10, Ms. Aug. 30 WWL-4, Sept. 9 WCDC-19, WCDA-41, WKST-33, WFMJ-21, WKBN-27, WAKR-49, Oct. 1 aurora audio only WNBQ-5, WBBM-2, WFIL-6, WTHI-10, WBKB-7, WGN-9, WNBC-4, WMAR-2, total 288 with 3 new.

RICHARD V. NIEMAN 99 IMSON STREET BUFFALO 10 NEW YORK

Reports in by Dec. 1

November, 1961

Hello again. FM reports are on the thin side as was expected. With winter approaching, the dxer will have to be alert for that elusive dx. But in the realm of radio wave dx, the unexpected often occurs, so don't give up on FM or TV.

Many TV dxers have probably wanted to get into FM dx for some time, but they often dismiss the idea due to the expense of a new setup. The cost of a receiver and antenna would probably be too much. Or maybe you live close to a large FM outlet where there are ten stations pouring out their signals. Let's make a hypothetical case. You live about ten miles from a large city, say New York. You have a fifty dollar tuner and can afford maybe a ten-element antenna. Give up you say. Well, one alert young man that I know of gave it a try, and his results are as follows. 410 FM stations received, 366 verified, 34 states, 3 countries. Impossible? Then you have never heard of new member A.M. Germond. Al resides in Englewood N.J. He started FM dx about three years ago. His specific equipment includes; an EICO hft-90 tuner, Finco yagi, and CDR rotor. I have been of the belief that that EICO tuner is the best buy in world. Al has often considered getting a Scott or Sherwood, but when he considered the difference, he gave up on the idea. I don't blame him. Incidentally, Al has had the ten element yagi for only six months and the rotor only three months. Some of Al's better dx includes E'S-1300 miles to Texas, WFAA, KRLD, etc., tropo- 600 miles WMTT Clingmans Peak N.C. Al has had terrific dx via m's, a form of dx almost unheard of on FM. Fifteen stations have been ID' via m's, but Al sighs, only 8 are verified! As Al notes; "It is difficult to get a verie when all you hear is a few bars of long hair music then the call K M X St. Louis". WMBI in Chicago is often heard by Al. With 60 locals, you might think that Al has an image problem from those ten mile bombs out of New York. But, no image problem is apparent on the EICO. This 65 dollar, 40 dollar kit, tuner is loaded with about 100 stations daily. Among Al's experiences, one includes the man who bought a turnstile omnidirectional FM antenna, then bought a rotor for it!! Now he is ready for MX and DX! The October report for Al follows.

Oct 4 WNNJ FM 103.4 Newton, NJ, a new local; Oct 7 WYBC FM 94.3, Oct 10 WHTG FM 105.5, Eatontown NJ new local; Oct 11 WRAX FM 102.7 WGR FM 96.9, WMTI 91.5, Oct 12 WRVC 102.5, WNAS FM 94.7 Oct 14 WRBR FM 95.7, Oct 19 WPMI 93.1, WCAO FM 102.7, WGTB 90.1..A word on these receptions. On 10-19 had excellent reception to the South-west, namely Baltimore and Washington. Using the Yagi, he could null out the locals and hear stations from these two cities on many of the local frequencies. New stations on local frequencies were: WCAO FM behind WNEW FM and WPMI behind WPAT FM. With the loggings of these two stations and WGTB 90.1 Washington DC, he has 100% loggings of Baltimore and Washington. These are added to Boston, Providence, Hartford, New York and Philadelphia, also heard 100%. Welcome to the AIPA.

Dennis Smith of Fresno, California added 2 more to his DX list. Heard were; Oct 13 KONG FM 92.9, Visalia, Cal. Oct 14, KHR 96.9 Monterey. Both stations are new to the Cal. area. Denny notes that 118 FM stations are in operation in Cal. Dennis heard 93 FM stations with his Halicraft SX 43 receiver and 10 element Yagi.

I didn't get any gripes from members about this section of the bulletin, but I also didn't get any suggestions as what you want to see. How about this list of all-nighters? Let's have some comments on this idea.

I remember Art Collins saying that a few multiplex stations out east were cutting out MX. WKFM in Chicago, one of the pioneers is on only three hours a day with their MX set up. I don't know if too many people will be eager to get an adapter for their FM tuners to hear stereo for such a short amount of time. We will just have to wait and see.

That is about it for this month. I will be expecting some good reports next month, because I know that there has been some unusual dx, both tropo and e's. Even your's truly has seen terrific dx on my crippler of a TV set.

73's, Dave

As the bad weather sets in around the locale of our Northern states we shall resume our opening topic of last month which was verifications.

As we said last month, the "Thank You" verie presents a great obstacle to those of the DX clan. An example of this is WCCO ch. 4, which sends out a thank you type card to DX reporters. Although I have definitely and positively received them, I have no other way of showing proof but through this card. The problem involved here is of course, not necessarily having the verie, but finding out that you definitely received them. Letters in from members Bill Hider and Dennis Smith indicate that the "Thank You" card or letter should not be regarded as any kind of proof of reception.

Some of the problem can be traced to the DXer himself. If all DXers would follow proper business procedure in writing, perhaps a more sizeable group of the stations would take the time to check the report and reply in the manner DXers desire. This brings us to the point concerning the proper form to be used in requesting verification.

Before the writing of this column began, I asked Art Collins why so many DXers had success in writing to stations and receiving the proper reply and others didn't. According to Art, many DXers don't take the time and effort to submit a complete, neat, business-like report to the stations. Many reports are such a mess, it's no wonder that the stations refuse to answer; many reports are unreadable and head for the trash basket as soon as they are received. It is very necessary to standardize your reports into the proper form in order to aid the station in checking your report.

I have found that the following procedure has resulted in the addition of several fine veries to my DX log:

1. Use a typewriter if at all possible! If you don't have one, borrow one. The stations can easily read and check a report if it is legible and neat.

2. Use the proper business form when writing to the station! This includes your address and the date with the station's address and to whom it is directed on the letter itself, not just the envelope.

3. Use an understandable form. Give a short introductory paragraph explaining that you are a television DXer interested in obtaining verification of reception of their station. Devote a paragraph or two to explaining the date and time received, with the advertising and programs seen. (Remember to state the time zone in your location since many stations are scrambled in different zones--it is usually difficult to try to put down the time as it would be in their zone). Your last paragraph should state generally that you would greatly appreciate their checking your report and informing you as to its correctness. (Remember you are at the mercy so make no demands; just politely request!) Also use the proper closing; Sincerely yours or Very truly yours will suffice.

4. Use other methods to insure a reply! This refers to enclosing return postage; many stations do not reply unless return postage is enclosed. (a 4¢ stamp) Also if you have a duplicate photograph of advertising or call letters, many stations appreciate having them for their files; this also helps to prove identification. Generally address the reports to the Chief Engineer; other signers from replies can be obtained from time to time in the AIPA bulletin.

The above form should be helpful to most DXers and will produce surprising results if followed. A 100% reply is never guaranteed, but proper procedure always helps. Any extra suggestions on this should be submitted to this column as soon as possible.

Next month we shall consider the perplexing problem of counting stations. The AIPA board members have been working on this; we hope to have official standards ready for next month.

INTERNATIONAL NEWS & DX
6 November, 1961

Ferdinand S. Dombrowski Jr.
1335 Road B, Okauchee, Wis.

I spent a whole day at the library recently so I have quite a bit of information this time without consulting the EBU station list.

The annual National Radio Show in London is over so Wireless World devotes a lot of space to it in the Sept. and Oct. issues. They publish pictures of many new 1962 TV models which I always find interesting. British manufacturers use styles of cabinetry often very different from those in the USA. Although most manufacturers speak up for retention of the 405 line standard, many of them displayed dual standard and 625 line receivers this year. The BBC also demonstrated color TV although the government has refused to allow regular colorcasts.

Contracts have been awarded for the last of the ITA stations in the high band. Now the talk will probably shift to UHF again for future expansion. By the end of the year, 17 commercial stations will be on the air and 4 more will open in 1962 according to the present schedule. New stations are ch.9 at Durrus near Aberdeen, Scotland; ch.12 at Monteagle near Inverness, Scotland; ch.11 at Caldbeck near Carlisle; and ch.13 at Selkirk, a satellite of Caldbeck.

The BBC will soon initiate an experimental band V color transmission using 625 lines and an 8mc channel.

The UHF network in Federal Germany is just beginning. Since the federal courts turned thumbs down on the federal control of it, the present VHF owners will start a second program on UHF. Programming began in May and June on some stations and more are being added right along. By next summer everything will be in full swing.

Italy's second network begins in mid-Nov. I think it will be VHF but I'm not really sure. Very few details have been released as far as I know. Bad English there but I got the word in didn't I?

The French second network will begin in the not-to-distant future. A Paris station will open next June and will be the first one in the network I guess. All band IV and V French stations will use 625 lines. UHF.

Australia must be getting cramped for TV spectrum space. The ABC's FM stations went off the air to make room for more TV channels. The new list of channels reads like this: (I abbreviate these channels as P):

P1 45-52mc	P5 94-101mc	P9 181-188mc	P13 215-222mc
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P2 56-63mc	P6 94-101mc	P10 188-195mc
------------	-------------	---------------

P3 63-70mc	P7 137-144mc	P11 195-202mc
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P4 83-92mc	P8 174-181mc	P12 208-215mc
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UHF channels are under consideration

The FM band used to be 92-108mc. Only 4 experimental govt. stations were on the air the last few years. No mention of a new FM band at this time. This means that all the original stations on channels 2, 7 and 9 must now change their channel numbers to 3, 9 and 11 although not changing frequency. And the IDX situation is improved also, because whereas there was previously only 1 ch. below 63mc, (48-56mc), there are now 2 channels. I hope the ABC doesn't monopolize band I like the BBC does in Britain. It's hard to identify stations with identical programs on the same chan.

The CCIR meeting in Sweden drew up channel numbers for most of the UHF bands IV and V. Channels run consecutively from 470mc to 854mc, and will be numbered consecutively from 21 to 68. All channels are 8mc wide which allows for future expansion of definition such as the Russian system's 8mc channel. For the time being, that extra 1 mc will act as a guard band between channels cutting ACI a little, (adjacent chan. QRM).

I passed my physical and expect to be drafted in Dec. or Feb. unless I enlist before then. SO I'm already starting to put things in order before my departure and hope I get everything in order before it's too late. I doubt very much that 5 of you would want a \$10 TV factbook so I'm not taking orders. Dennis Smith expressed interest until he heard the price. I don't want one either, not at that price, not now.

The Nov. issue of "Electronics Illustrated" has a 2 page spread on a Belgian TV-DXer who claims to have received Tokyo on TV. The published photo is unreadable but looks like Es or VG tropes. This DXer claims to having verified 26 stations in 2 years of day and night DXing while being away from his job. They built it up pretty big.

Dennis Smith reports hearing 35mc F2 skip already in late summer. Is anyone else watching and listening for F2 this year? I hope to calibrate my Regency 40mc converter soon to determine its exact frequency range. In 1958-9 when I was IDXing, I didn't have an RF generator for calibration. First I must calibrate the RF generator and then the converter.

As I've mentioned before, I wrote an article on TV-DX for O. Lund-Johansen of World Radio Handbook fame. The article was to appear in "How to Listen to the World" but the publisher recently informed me that there were so many TV articles that he has decided to publish a separate book for TV entitled "How to See the World" to be released in early 1962. No price was given as yet but I should hear from him soon. Both books will probably be priced under \$1 I imagine. I may be able to get a special price for AIPAers, but this too he hasn't fully explained.

Local station WMTV-33 went to channel 15 on Oct. 21 so look for it. 237 kw from a 1200 tower should give it a good coverage area.

By mid-November, RCA will send 16 people to Nigeria to set up and temporarily operate a Federal TV network. The first station to serve Ibadan and Lagos will begin early in 1962, and other stations will be added for eventual national coverage.

RCA was also constructing a UAR network in both Egypt and Syria, and the Syrian revolution may disrupt RCA's plans there. No news yet.

There are now over 100 million TV receivers in the world. Nobody will ever catch up to the USA I'm sure, with our 53-54 million but TV is growing fast elsewhere. The United Kingdom has 12 million, Japan and the USSR 8 million, West Germany 5, Canada 4, Italy 2½, France 2, Brazil and Australia 1½.

Another bunch of new TV stations have been approved in Canada, all low power so I won't list them here. 2 are in Ont. and the rest in the prairie provinces. The last Canadian note is that CFTO-9 in Toronto has asked that ABC-Paramount be allowed to purchase 25% of its stock.

Interesting stories have come out of Africa about TV, particularly from Nigeria. Although there are only 10,000 TV sets, each one has an estimated 20-35 viewers. An American travelling there was surprised to hear a taxi driver talking about American programs. The Taxi man said that although TV sets are expensive, they are in great demand. He personally borrowed the money and bought a TV; then he charged his neighbors \$1 a night and had the set paid off in a month. He said roads and schools can wait but Africans want TV and better communication NOW!

East Germany said it will have color TV by 1965. It looks like there may be a progress race between East and West Germany. Communist Germany will do anything for the propaganda victory in being able to tell its people that they have color before the Federal Republic. Color TV in West Germany and Western Europe is being held up for various reasons. They're trying to dig up a set of standards agreeable to all countries, even France and Britain. France's announcement that it will start a 625 line network means that they could go along with the the proposed 627 line color system. But Britain still is fighting with itself over 405 vs 625 so no solution is in sight.

With the announcement that the West German UHF network is underway, another release says another UHF network is in the planning stages for 1964 or so.

AB/PT, the abbreviation used for ABC-Paramount, is to assist Televisora Nacional in Panama to construct ch. 2 and 6 stations there. At least one of these stations will be on in 1961. 25,000 receivers. 73s.

A I P A

W E S T E R N D X

November 1961

Dennis Smith

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Fresno 26, California

Greetings...I received some pretty fair trop reports this time, although I understand that it hasn't really opened up as it should east of the Rockies during the Fall season.

David Combs reports that he hasn't DXed for about six weeks---busy days--he reports mostly new ones here..all trop..Aug. 20: KWTU-9(new--369 mi) KOTV-6 KTUL-8(both new--306)Okla. Aug. 27: WGN-9(new--325)Chicago. Sept. 5: KOED-11(new--306)Okla. KCRG-9(new--230)Iowa. Sept. 6: WTHI-10(new--278)Ind. WOW-6(new--250)Neb., also KOLN-10(266 mi)seen with local quality. 8 new stations seen in Columbia, Missouri now total 99.

Bill Hauser has seen some trop in Enid, Oklahoma. All trop... Sept. 26: KTAL-6 Tex-La. Oct. 7: KOMC-8, KPAR-12(new--305 mi) KOSA-7 (new--410) KRBC-9(new--295) KCBT-11 KDUB-13 Tex. KTHV-11 KATV-7 Ark. Oct. 8: KMOX-4 KPIR-11(new--445)Mo. Oct. 9: KHQA-7. Oct. 11: KFVS-12 (new--460) KTTS-10 Mo. WPSD-6 Ky. Oct. 12: KVER-12(new--325) KSWS-8 (new--425)N.Mex. KOSA-7. Oct. 13: WDAF-4 KETV-7. Oct. 17: KWWL-7(new--515)Iowa. KROC-10(new--600)Minn. KGIN-11(new--320)..this is new on the air. in Grand Island, Neb..KRNT-8 WOW-6 KETV-7. KUON-12(new--310)Neb. KFLO-11. KEYC-12(new--575)Minn. (See MS Column for Bill's MS.) His total is now 215. Here is the remainder of his summer DX, continuing from last month: July 19: Es,WMAR-2 WUNC-4 WRCV-3 WFMY-2 WGR-2 WSYR-3 WEDU-3. July 20: Es,XEWO-2 KTVU-2. KCRA-3(new--1285). July 22: Es. CKCK-2 CHAB-4. CFRN-3(new--1300). CHSA-2 CHCT-2. July 23: Es,KDAL-3. KXJB-4(new--725). KDLO-3(new--505). KUTV-2 WFMY-2, WFBC-4(new--870), KYW-3. July 23: trop,KOMU-8(new--350). KFEQ-2. KRCG-13(new--345). July 24: trop,KETV-7. KRNT-8(new--385). KOMU-8 WHO-13: Es,WFMY-2 WEAR-3 WTAR-3 WOAY-4 WRC-4 WGR-2. KXLF-4(new--1000). KHQ-6. July 25: trop, KTBC-7(new--420): Es,XEZ-3 XEWO-2 KBOI-2 KEY-T-3 XEM-3 KTVU-2 KCRA-3 WBTU-3 WUNC-4 WFMY-2. July 26: Es,WSAV-3: trop,WGEM-10(heard by tuning SW receiver to strengthen audio). KOMU-8 KRCG-13 KVII-7; Es,KBOI-2. July 28: trop,KSD-5(new--logged like WGEM); Es,KTWO-2. XHTV-4(new--1180 --logged thru WKY). CHCT-2. July 29: Es,KBOI-2 CHCT-2 KNXT-2 KRCA-4 KEY-T-3 KTVU-2 KCRA-3 WRCV-3. July 30: Es,WTUJ-4(new--1270). WDSU-6 (new--630). WBRZ-2 WWL-4. WPTV-5(new--1235). WRBL-3(new--780). WJXT-4 WBTU-3. CKRN-4(new--1240). CFCL-6(new--1165). WJAC-6 WOAY-4 WTVR-6 CKRN 4. Not quite enough room to finish; it will be concluded next time.

Eric Norberg went down to Pomona College Sept. 24-25---I mentioned that ridge over Eric's head in Carmel that keeps a lot of signals down --actually, he is rather well boxed in on all sides (except the ocean straight west), so skip is weakened a bit and trop is almost nil. But on Sept. 21, trop came over the hills, and KEY-T-3 (175 mi) and KSBY-6 (110 mi) were seen (both new)..so his total is now 41 with 2 new.

Well--on Nov. 14, I report to the local draft board for a physical (I'll be 23 in July). So, like Ferdinand Dombrowski, I suppose it is only a matter of time before I am drafted. too. If and when it happens, one of you may have to take over this column; meanwhile, I expect to be around for the next several months, anyway.

The new TV and FM stations here in Fresno are not on yet--in fact, the tower has just been completed..so by next month, something should be on. I've heard, though, that New York's experimental station, WJHF ch. 31, is starting November 5....

Best of DX to all

Dennis

CO-CHANNEL INTERFERENCE COLUMN--conducted by BEDFORD B BROWN

6141 SOUTH MAYFIELD, CHICAGO 38, ILL.

First my apologies for missing the September and October bulletins. We Chicagoans are still plagued with typewriter troubles.

A severe lack of reports during the off-season has forced me to consider revamping the co-channel interference column during this off-season to include meteorological topics, especially those which may be connected to tv-dx.

I would like to have letters from you concerning what you would like to read about in the way of weather events and their possible connection with tv-dx. Also if you have noticed any definite relationship between weather and tv-dx, let me know about your findings.

Few scientists have done extensive research into tropospheric and E-skip tv-dx and its possible connection with surface or upper-air weather. But conferences with meteorologists and other scientists at the University of Texas have led me to believe that there is much more of a relationship between even E-skip tv-dx and surface weather than anyone suspects.

So please write and let me know what you would like to see in this column. Let it be understood that unidentified programs will always take precedence in the Co-channel Interference Column, but it might be possible than even off-tv-dx subjects or special requests in the meteorological area might be worked into the column.

Let me hear from you. Until December, 73's and best dx for now, Bedford Brown.
P.S. To Bryan Rawlings: Sorry for not writing sooner Bryan and sorry I didn't get to see you when I was in your beautiful city, but I had no time at all to visit, as I was just on a weather reconnaissance flight, with a three-hour lay over. Bedford

